

## AMENDMENTS TO THE CLAIMS

1. (Currently Amended) Method of reconstituting the coating of a prestripped optical fiber, ~~characterized in that it comprises the steps consisting in~~comprising:

making a sharp cut in an initial coating of the fiber, in a plane orthogonal to an axis of the fiber (10), the sharp cut covering all radial extension of the coating;

—applying a drop of a viscous material, on one end of the stripped region of the fiber (10), at the interface (22) with the remaining initial coating (20); and

—shaping ~~this the~~ drop into a mass (30) having a generally frustoconical envelop which is centered on the axis of the fiber (10) and tapered on going away from the adjacent initial coating (20), before

—filling the stripped space of the fiber with a mass of material capable of resheathing ~~said~~ the fiber.

2. (Cancelled)

3. (Currently Amended) Method according to ~~one of claims 1 or 2, characterized in that the aforementioned steps of~~ wherein the applying drops of viscous material and of the shaping ~~them the drops~~ are carried out on each end of the stripped region of the fiber.

4. (Currently Amended) Method according to one of claims 1 ~~to or~~ 3, ~~characterized in that it consists in repeating several times the steps of~~ wherein the applying a the drop of viscous material and of the shaping it ~~before the filling step is carried out~~ the drop are repeated prior to the filling the stripped space.

5. (Currently Amended) Method according to one of claims 1, 3 to 4, ~~characterized in that~~ wherein the viscous material is a polymer.

6. (Currently Amended) Method according to one of claims 1, 3 to 4, ~~characterized in that~~ wherein the viscous material is a silicone.

7. (Currently Amended) Method according to one of claims 1, 3 to 6, ~~characterized in that it furthermore includes the step consisting in~~ further comprises:  
crosslinking the viscous material before the shaping step.

8. (Cancelled).

9. (Currently Amended) Method according to one of claims 1, 3 to 8, ~~characterized in that wherein~~ the stripped region of the fiber (10) has a length of between a few millimeters and a few centimeters.

10. (Currently Amended) Method according to one of claims 1 to 3, 7 and 9, ~~characterized in that wherein~~ the volume of each drop of viscous material deposited at each application step is of the order of a few mm<sup>3</sup>.

11. (Currently Amended) Method according to one of claims 1, 3, 7 and 9 to 10, ~~characterized in that wherein~~ the diameter at the base of the cone (30) is around 250 to 350 microns.

12. (Currently Amended) Method according to one of claims 1, 3, 7 and 9 to 11, ~~characterized in that wherein~~ the apex angle of the cone (30) is around 5 to 70°.

13. (Currently Amended) Method according to one of claims 1, 3, 7, and 9 to 12, ~~characterized in that wherein~~ the viscosity of the material applied is between 1000 and 10 000 mPa.s.

14. (Currently Amended) Method according to one of claims 1, 3, 7 and 9 to 13, ~~characterized in that it furthermore includes the step consisting in further comprising:~~  
forming a Bragg grating in the stripped region of the fiber (10) before it is resheathed.

15. (Cancelled)

16. (Cancelled)